(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



! (BBTS BINGER) (| CUBING HEIN BERN BERN BIRN | 1 HI BERN BIRN BIRN BIRN BIRN HEIN BIR BIRN BIRN HEIN HEIN HEI

(43) International Publication Date 29 July 2004 (29.07.2004)

PCT

(10) International Publication Number WO 2004/063228 A1

(51) International Patent Classification7: A61K 7/06

C08F 2/32.

(21) International Application Number:

PCT/EP2003/051056

(22) International Filing Date:

18 December 2003 (18.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: VA2003A000002

9 January 2003 (09.01.2003)

- (71) Applicant (for all designated States except US): LAM-BERTI SPA [IT/IT]; Via Piave 18, I-21041 Albizzate (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): POLOTTI, Gianmarco [IT/IT]; Via Fogagnolo, 89, I-20099 Sesto San Giovanni (IT). BENETTI, Arianna [IT/IT]; Corso Leonardo Da Vinci, 61, I-21013 Gallarate (IT). FEDERICI, Franco [IT/IT]; Viale Stelvio, 49, I-21052 Busto Arsizio (IT). LI BASSI, Giuseppe [IT/IT]; Via Stretti, 4, I-21026 Gavirate · (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,

RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR. TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNTHETIC THICKENERS FOR COSMETICS

(57) Abstract: Disclosed are inverse emulsions useful as thickeners for cosmetic formulations wherein the weight ratio between the aqueous phase and the oil phase is from 4:1 to 2:1 and containing from 20 to 70% by weight of an anionic acrylic polymer obtained by inverse emulsion polymerisation of one or more anionic acrylic monomers, at least one of which containing a strongly acidic functional group, dissolved in the aqueous phase, and at least a hydrophobic acrylic monomer dissolved in the oil phase before the mixing of the two phases. Also disclosed is the procedure for their preparation.



